

SECTION 16230

WIRING DEVICES

PART 1 - GENERAL

- 1.1 Provide wiring devices complete with all necessary trim rings or wall plates as shown or as required.

PART 2 - PRODUCTS

- 2.1 Wiring devices shall be as manufactured by LEVITON, ARROW-HART, BRYANT, HUBBELL or PASS & SEYMOUR. All wiring devices provided on this project shall be by the same manufacturer and shall be "specification grade".
- A. Local switches shall be single pole, double pole, three way and four way as shown on the drawings, black plastic cup with red plastic cover and ivory plastic handle, back or side wired, 20 ampere, 120-277 volts.
 - B. Duplex convenience receptacles shall be ivory plastic, 20 ampere, 125 volts, 2 pole, 3 wire NEMA and ASA Standard, grounding type.
 - C. Weatherproof receptacles shall be in cast metal box with gasketed, weatherproof, cast-metal cover plate and gasketed cap over each receptacle opening. Caps shall be provided with a spring-hinged flap. Receptacle shall be UL listed for use in "wet locations."
 - D. Ground fault circuit interrupting receptacles shall conform to NEC, shall be UL listed, ivory plastic, shall have a "push-to-test" button and visible indication of a tripped condition, and shall detect a current imbalance in device or equipment plugged-in of approximately 5 milliamperes and trip out under that condition.
 - E. Special devices shall be as shown on drawings.
 - F. Device plates on unfinished walls and on fittings, shall be zinc-coated sheet steel having rounded or beveled edges. On finished walls, plates shall be satin finished type 302, Alloy 18-8 stainless steel with beveled edges. Plates shall be of one piece type to suit device or devices covered. Sectional plates will not be permitted. Junction boxes in finished areas shall have blank satin finish stainless steel plates as specified above. Telephone outlets in finished areas shall have satin finish stainless steel plates, as specified above, with single bushed hole in center. Plates on finished walls shall be nylon or lexan. Plates shall be same color as receptacle or toggle switch with which they are mounted. Screws shall be machine-type with countersunk heads in color to match finish of plate.
 - G. Time Switches shall be TORK, INTERMATIC, SANGAMO or equal with contact arrangement as indicated or as necessary to operate devices indicated including electrically held or mechanically held devices. Provide astronomical dial and omitting device.
 - H. Contactors shall be electrically operated and electrically-held or mechanically-held if indicated, of NEMA size and other characteristics as shown; in enclosure with hand-off-

automatic switch in cover. Mechanically held contactors shall have integral coil clearing contacts.

- I. Photocell switch shall be hermetically sealed cadmium-sulfide cell with single pole double-throw (SPDT) contacts for control of mechanically held contactors rated 1000 watts and 120 volts. Provide switch in a high-impact-resistant noncorroding and nonconductive molded plastic housing with a locking-type receptacle. Switch shall turn on below 3 footcandles and off at 3 to 10 footcandles. A time delay shall prevent accidental switching from transient light sources. Provide a directional lens in front of the cell to prevent fixed light sources from creating a turnoff condition. Aim switch according to manufacturer's recommendations.

PART 3 - EXECUTION

- 3.1 Devices shall be installed in a rigid manner in outlet boxes. Device plates shall be installed with all four edges in continuous contact with finished wall surfaces without the use of mats or similar devices. Plaster fillings will not be permitted. Plates shall be installed vertically and with an alignment tolerance of 1/16 inch.

3.2 GROUND-FAULT RECEPTACLE TEST

- A. Test ground-fault receptacles with a "load" (such as a plug in light) to verify that the "line" and "load" leads are not reversed.

END OF WIRING DEVICES